

1. (currently amended) A method for verifying a command in a vehicle remote communication system, said remote communication system including a remote transmitter, a receiver module and a control module connected by a communication bus in a vehicle body, the control module in communication with at least one vehicle system, said method comprising the steps of:

- a) transmitting an activation signal from said transmitter, said first signal received and decoded by said receiver module;
- b) transmitting a first message from said receiver module to said control module along said communication bus in response to said receiver module receiving and decoding said activation signal, ~~said first message received by said control module~~;
- c) transmitting an acknowledgment message from said control module to said receiver module along said communication bus in response to said control module receiving said first message ~~said acknowledgment message received by said receiver module~~;
- d) re-transmitting said first message from said receiver module to said control module along said communication bus in response to said receiving module receiving said acknowledgement signal ~~said re-transmitted first message received by said control module~~; and
- e) initializing a vehicle system command from said control module to said at least one vehicle system in response to said control module receiving said re-transmitted first message, thereby preventing an inadvertent activation of said at least one vehicle system.

2. (original) The method according to claim 1 wherein said activation signal in step a) is transmitted by pressing a button on said remote transmitter.

3. (original) The method according to claim 1 wherein said activation signal in step a) is transmitted by pressing at least two buttons on said remote transmitter.

(10/801,911)

4. (original) The method according to claim 3 wherein for each button press, said transmitter transmits a unique RF message to complete said activation signal.

5. (original) The method according to claim 1 wherein steps c) and d) are repeated at least once prior to performing step e).

6. (original) The method according to claim 1 wherein said at least one vehicle system is an engine remote start system.

7. (original) The method according to claim 1 wherein said at least one vehicle system is a remote keyless entry system.

8. (original) A vehicle remote communication system, comprising:  
a remote transmitter having at least one pushbutton, said remote transmitter operable to transmit an activation signal;

a receiver module mounted in a vehicle, said receiver module operable to receive said activation signal from said remote transmitter;

a control module mounted in said vehicle;

a communications bus mounted in said vehicle and connecting said receiver module and said control module; and

at least one vehicle system in communication with said control module, whereby said receiver module and said control module validate said activation signal by transmitting a first message from said receiver module along said communication bus, said first message received by said control module, transmitting an acknowledgment message from said control module along said communication bus, said acknowledgment message received by said receiver module, and re-transmitting said first message from said receiver module along said communication bus, said re-transmitted first message received by said control module, thereby preventing an inadvertent activation of said at least one vehicle system.

(10/801,911)

9. (original) The communication system according to claim 8 wherein said activation signal is transmitted by pressing a pushbutton on said remote transmitter.

10. (original) The communication system according to claim 8 wherein said activation signal is transmitted by pressing at least two pushbuttons on said remote transmitter.

11. (original) The communication system according to claim 10 wherein for each pushbutton press, said transmitter transmits a separate RF message to complete said activation signal.

12. (original) The communication system according to claim 8 wherein said at least one vehicle system is an engine remote start system.

13. (original) The communication system according to claim 8 wherein said at least one vehicle system is a remote keyless entry system.

14. (original) The communication system according to claim 8 wherein said communication bus is a multiplex two-wire communication bus.

15. (original) A method for remote starting a vehicle in response to pushbutton commands from a remote transmitter, said vehicle including a receiver module coupled to a powertrain control module via a communication bus, said method comprising the steps of:

said receiver module detecting said pushbutton commands indicative of a desire to remotely start said vehicle;

said receiver module transmitting a remote start request message to said powertrain control module via said bus;

said powertrain control module transmitting a request acknowledgment message to said receiver module via said bus in response to said remote start request message;

said receiver module transmitting a confirmation message to said

(10/801,911)

powertrain control module via said bus in response to said request acknowledgment message; and

said powertrain control module initiating starting of said vehicle in response to said confirmation message.

16. (original) The method according to claim 15 wherein said receiver module and said powertrain control module transmit said request acknowledgment message and said confirmation message at least twice.

17. (original) The method according to claim 15 wherein said activation signal is transmitted by pressing a pushbutton on said remote transmitter.

18. (original) The method according to claim 15 wherein said activation signal is transmitted by pressing at least two pushbuttons simultaneously on said remote transmitter.

19. (original) The method according to claim 15 wherein said activation signal is transmitted by pressing at least two pushbuttons sequentially on said remote transmitter.

(10/801,911)

5